

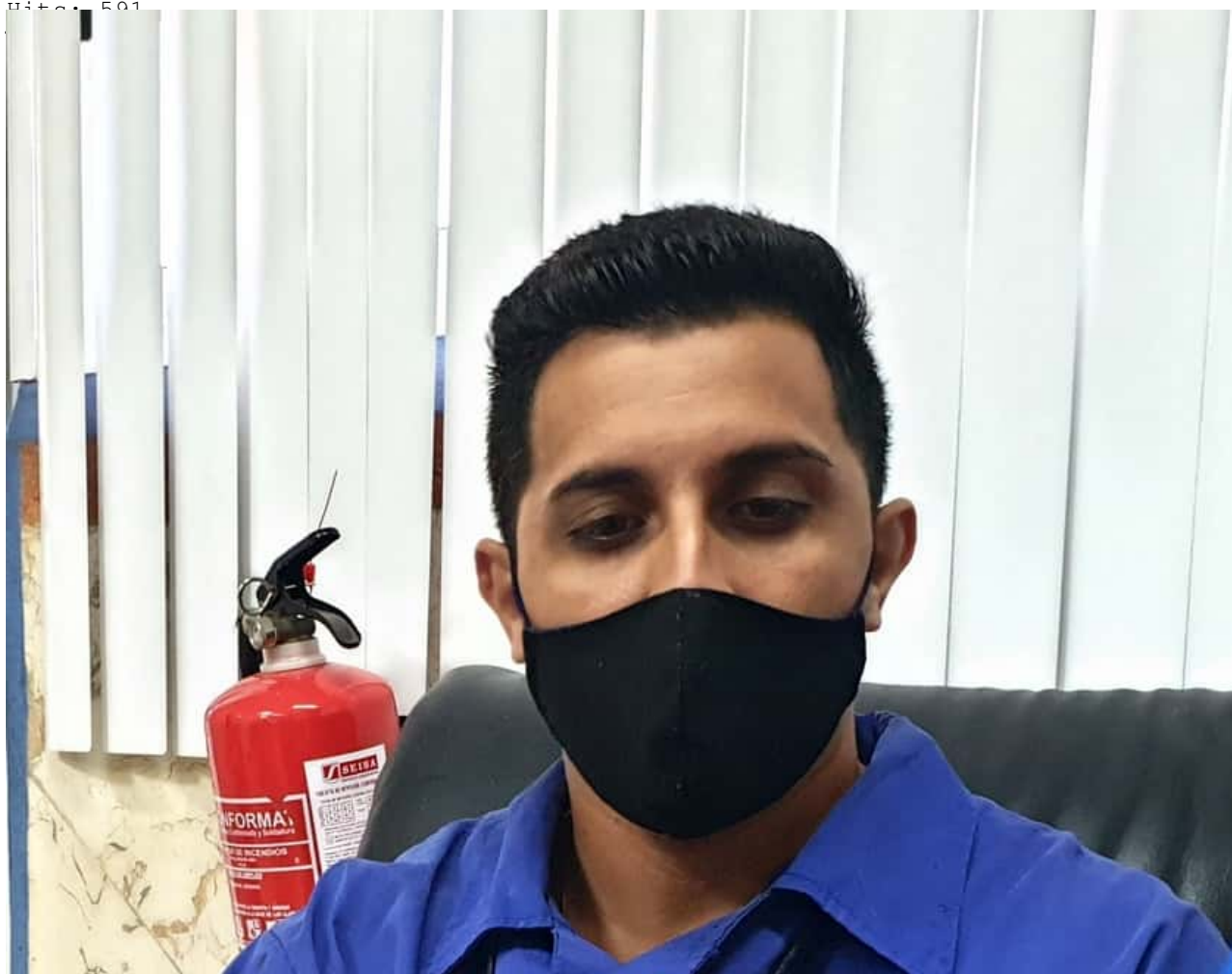
Young man applies science and innovation to generation control with RES

Category: News

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Written by Director

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In accordance with Cuba's socio-economic strategy, the Isla de la Juventud electricity company applies science and innovation in the search for efficiency in generation with Renewable Energy Sources (RES).

In order to take full advantage of the potential installed in the photovoltaic solar park with the highest capacity in the special municipality, Osmany Pantoja Gómez, an Automatic Engineer of the aforementioned entity, adapted a foreign software to the monitoring and control needs of the Firm, the area where he works.

This type of park has two operators per shift, who simultaneously check the supervision, control and data acquisition system (SCADA for its acronym in English) with the maintenance of the installation areas, therefore, the constant monitoring of the parameters in front of a machine is difficult, he explained.

The young man explained, he is one of the 23 workers of the Business Unit (UEB) Dispatch, which due to this condition was given the task of making a link between the company's cargo dispatch and the SCADA of the park through the platform communication system, known as OPC,

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~~based on Microsoft technology.~~

It is an international standard created with the aim of associating technologies from different manufacturers in the field of control and supervision of industrial processes, which offers a common interface for individual software components to interact and share data, using one or more computers where information is centralized, he specified. He pointed out that with the assimilation of this foreign technology, it was possible to create a window in the Firm's SCADA so that specialists constantly observe the behavior of the parameters shown by each of the panel chains or String connected to the park's inverters. For a better understanding, he specified that if it is the midday schedule, when the photovoltaic production must be high, and the comparison of the production between one String and another marks notable differences, it allows the technical staff to concentrate on the place where the problem really is and better organize the repair. RES specialists can also observe this window, from their PCs monitor the parks and keep a historical record for analysis in the year of the behavior of the String before and after maintenance, he said.

He added that although this technology has been used previously in the country, in Isla de la Juventud they are pioneers in the realization of this type of link, an experience extended to the experimental wind farm to visualize the behavior of the wind turbines from the Office. This work has been beneficial from the point of view of data transmission, for the utility we propose its generalization, together with other studies and solutions could be valued as projects, said Ignacio Moya Álvarez, director of the referred UEB in the special municipality.

The manager said that Osmany Pantoja Gómez is the author of a Creole version of the Professional Tester for UTP cable -digital verification and mapping tool- useful to determine if the telecommunications network service is available or if there are faults, whose prototype proposes to generalize in Cuba .